FIG. 1

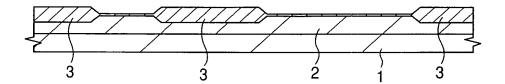


FIG. 2

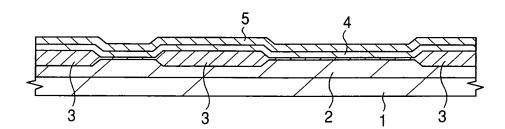


FIG. 3

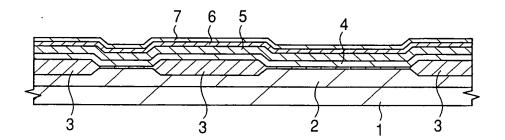


FIG. 4

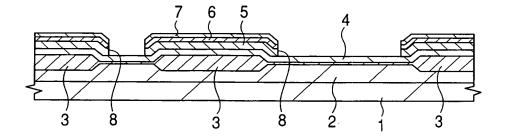


FIG. 5

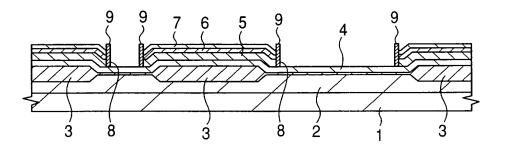


FIG. 6

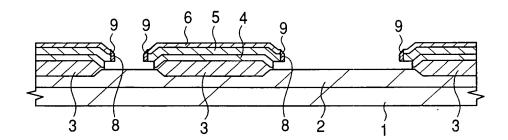


FIG. 7

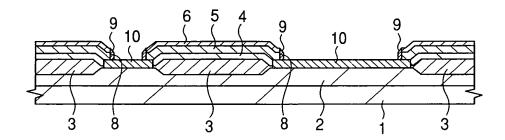


FIG. 8

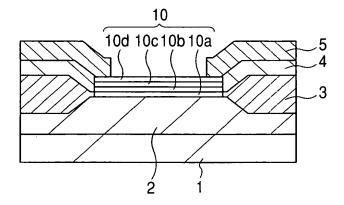


FIG. 9

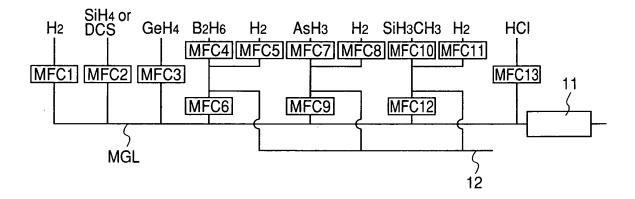
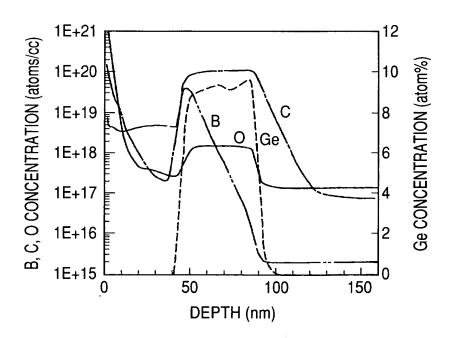


FIG. 10



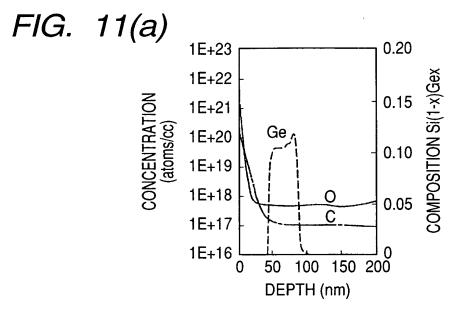


FIG. 11(b)

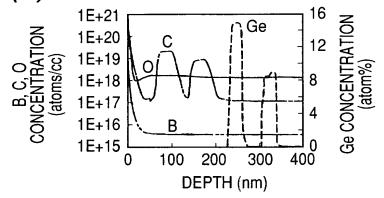


FIG. 12

SiH3CH3 CONCENTRATION (%)	OXYGEN-BASED IMPURITY CONCENTRATION (ppm) (THEORETICAL VALUE)	OXYGEN-BASED IMPURITY CONCENTRATION (ppm) (MAKER GUARANTEED VALUE)
100	10	10
10	1	10
5	0.5	10
1	0.1	10
0.1	0.01	10

FIG. 13

/	-	SCR	DIL		Conc.	IMPURITY COI	IMPURITY CONCENTRATION (ppm)	DILUTION	COMPARISON OF OXYGEN
	Carbon DN	(sccm)	(sccm)	(sccm)	(%)	BEFORE DILUTION	AFTER DILUTION	EFFECT	CONCENTRATION WITH RESPECT TO Conc.0.1% PRODUCT
	0.060	20	450	9	-	0.1	0.010	0.100	1.0
(a)	0.060	10	490	300	1	0.1	0.002	0.020	0.5
	0.060	10	990	600	1	0.1	0.001	0.010	0.1
	0.060	10	990	09	10	ļ	0.010	0.010	1.0
<b>Q</b>	0.060	10	4990	300	10	1	0.002	0.005	0.2
	0.060	10	9990	009	10	ļ	0.001	0.001	0.1
	0.060	10	490	60	5	9.0	0.010	0.020	1.0
(0)	0.060	10	2490	300	2	9.0	0.002	0.004	0.2
	090.0	10	4990	009	9	0.5	0.001	0.002	0.1
(p)	090.0	09	ı	ı	0.1	0.01	1	ì	I

# FIG. 14(a)

Carbon	SCR	DIL	ſNI	Conc.	IMPURITY COI (pp	ONCENTRATION (ppm)	IMPURITY CONCENTRATION   COMPARISON OF OXYGEN (ppm)	COMPARISON OF SIH3CH3 CONSUMPTION QUANTITY
	(sccm)	(sccm)	(sccm)	(%)	BEFORE DILUTION	AFTER DILUTION	WITH RESPECT TO Conc.0.1% PRODUCT	(FLOW RATE RATIO) WITH RESPECT TO Conc.0.1% PRODUCT
090.0	10	490	300	-	0.1	0.002	0.2	0.167 (1/6)
0.060	10	4990	300	10	<b>,</b>	0.002	0.2	0.167 (1/6)
0.060	10	2490	300	5	9.0	0.002	0.2	0.167 (1/6)
0.060	60	1		0.1	0.01	I	-	

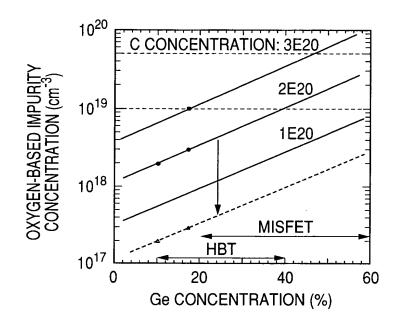
## FIG. 14(b)

Carbon	o C	10	=	Ç	IMPURITY COI	NCENTRATION	IMPURITY CONCENTRATION COMPARISON OF OXYGEN (ppm)	COMPARISON OF COST
DNO	(sccm)	(sccm)	(sccm)	] (%)	BEFORE DILUTION	AFTER DILUTION	WITH RESPECT TO Conc.0.1% PRODUCT	PERFORMANCE WITH RESPECT TO Conc.0.1% PRODUCT
090.0	10	490	300	1	0.1	0.005	0.2	0.28 (APPROXIMATELY 30%)
0.060	10	4990	300	10	1	0.002	0.2	0.39 (APPROXIMATELY 40%)
090.0	10	2490	300	5	5.0	0.002	0.2	0.49 (APPROXIMATELY 50%)
090.0	60	ı	1	0.1	0.01	]	ı	ı

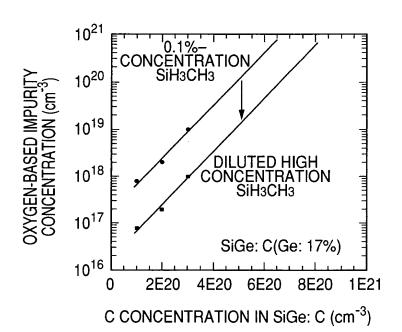
### FIG. 14(c)

	l		
COST COMPARISON (COST RATIO) WITH RESPECT TO Conc.0.1% PRODUCT	1.7	2.4	2.9
gas	Conc.1%SiH3CH3+H2	Conc.5%SiH3CH3+H2	Conc.10%SiH3CH3+H2

FIG. 15



### FIG. 16



### FIG. 17

	i-SiGe:C	p+-SiGe:C	p⁻-SiGe:C	cap-Si
Duration(sec)	120	30	60	90
MFC1	20000	20000	20000	20000
MFC2(DCS)	100	100	100	100
MFC3	50	50	50	-
MFC4	_	480	150	150
MFC5	_	1000	1000	1000
MFC6	_	600	200	200
MFC7	_	_	_	_
MFC8	_	_	_	_
MFC9	_	_	_	_
MFC10	10	10	10	<del>-</del>
MFC11	490	490	490	_
MFC12	300	300	300	_
MFC13	10	10	10	6

FIG. 18

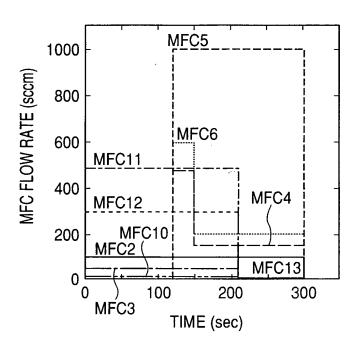
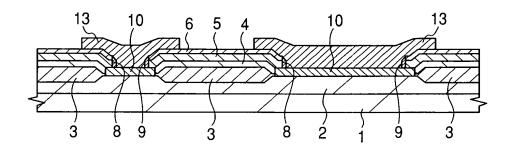
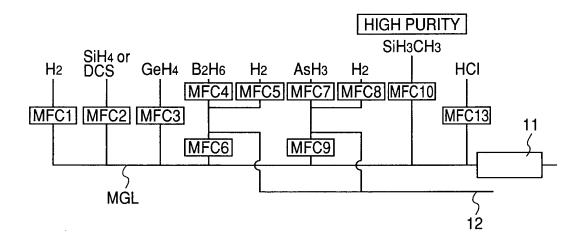


FIG. 19



### FIG. 20(a)



### FIG. 20(b)

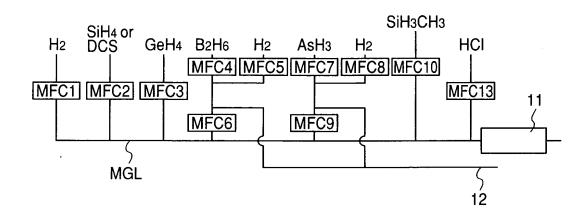


FIG. 21

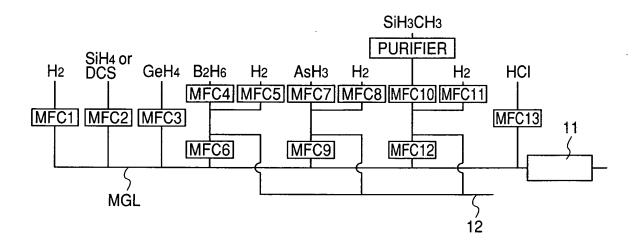


FIG. 22

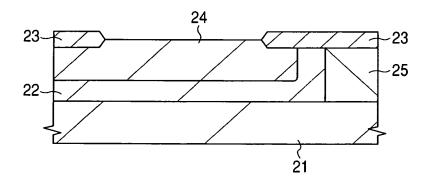


FIG. 23

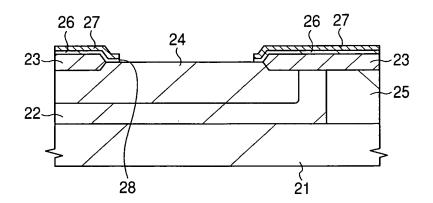


FIG. 24

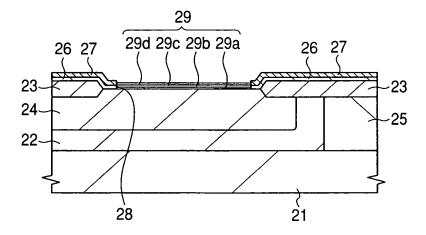


FIG. 25

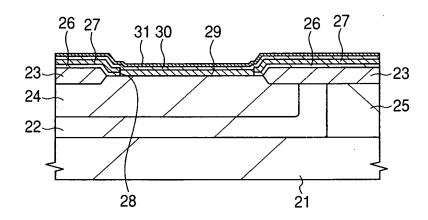


FIG. 26

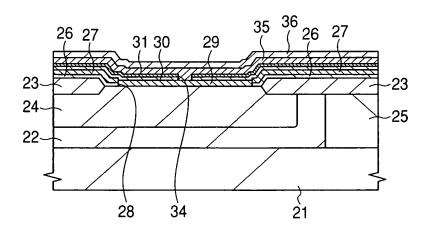


FIG. 27

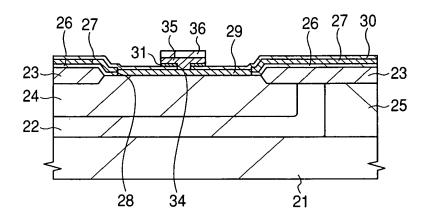


FIG. 28

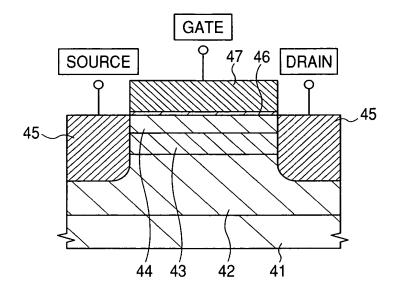


FIG. 29

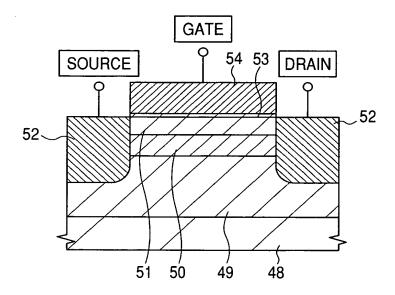


FIG. 30

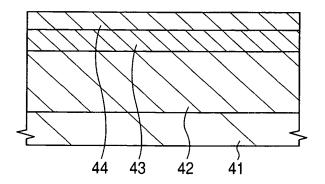


FIG. 31

46

44

43

42

41

FIG. 32

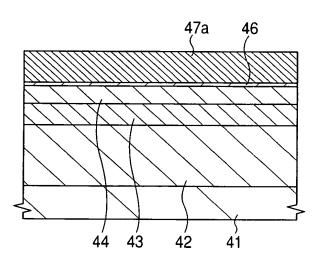


FIG. 33

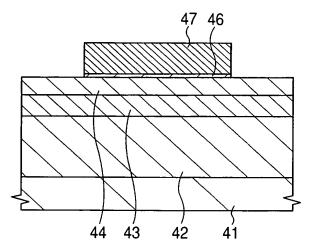


FIG. 34

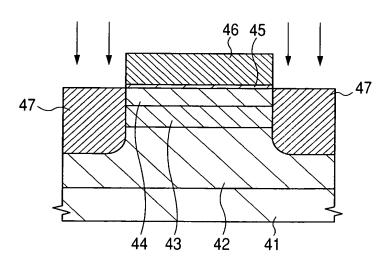


FIG. 35

FIG. 36

FIG. 37

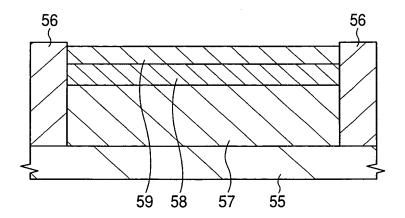


FIG. 38

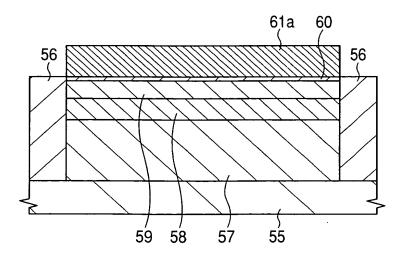


FIG. 39

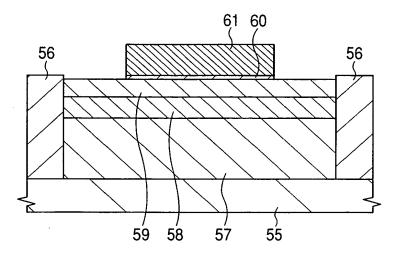


FIG. 40

